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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/667,113	. 09/18/2003	Gabriele Barlocchi	854063.552D1	2816
500 7	7590 10/23/2006		EXAMINER	
	LLECTUAL PROPER	ERDEM, FAZLI		
701 FIFTH AVE SUITE 5400 SEATTLE, WA 98104			ART UNIT	PAPER NUMBER
			2826	

DATE MAILED: 10/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/667,113	BARLOCCHI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Fazli Erdem	2826	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
 Responsive to communication(s) filed on <u>04 Octoor</u> This action is FINAL. 2b) ☑ This Since this application is in condition for alloware closed in accordance with the practice under Exercises. 	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
4) ☐ Claim(s) 1,3-9 and 21-35 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 8-19 and 21-35 is/are allowed. 6) ☐ Claim(s) 1 and 3-5 is/are rejected. 7) ☐ Claim(s) 6 and 7 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the original than the original than the correction of the original than the original th	epted or b) objected to by the bedrewing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) Motice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 8-19 and 21-35 allowed.
- 2. Claims 6 and 7 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 and 3-5 rejected under 35 U.S.C. 103(a) as being unpatentable over Sidner et al. (4,945,769) in view of Elderstig (5,690,841) further in view of Mirza et al. (5,883,420)

Regarding Claims 1 and 3-5, Sidner et al. disclose a semiconductor structure useful as a pressure sensor where in Fig. 2G, buried cavity is completely surrounded by monocrystalline semiconductor structure 12. Furthermore, layer 24 in Fig. 2F is a epitaxial inhibiting material which is disclosed to be one of oxide, nitride of TEOS. Sidner et al. fail to disclose this epitaxial growth inhibiting material to coat the walls of the cavity and the required liner/oxide along the bottom of the cavity. However, Elderstig et al. disclose a method for producing cavity structures where in Fig. 5, cavity 4 has a wall coated with epitaxial inhibiting oxde material 5. Furthermore, Mirza et al.

disclose a sensor device having a pathway and a sealed cavity where in Fig. 1, liner/oxide material 19 covers the bottom of the buried cavity 13.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required coating of the wall of the cavity and the require liner/oxide in the bottom of the cavity in Sidner et al. as taught by Elderstig and Mirza et al. in order to have a semiconductor device with increased reliability.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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FE

October 13, 2006

PRIMARY EXAMINED